



LABORATORY EXCELLENCE, SAFETY AND ACCREDITATION

Food and Water Microbiology

5 day course

Classroom, online or in-house

Course overview

Microbiological results take days to produce, by which time the product has often shipped and the water has been drunk, which makes method reliability and turnaround both matter. This course covers the discipline. Delegates work through aseptic technique and laboratory layout that prevents cross contamination, media preparation and quality control, and sample handling and homogenisation. Enumeration methods including plate count, most probable number and membrane filtration are covered with their appropriate applications. Detection of specific pathogens and the confirmation steps each requires follow. Rapid and molecular methods are addressed alongside their validation requirements. The course closes on interpreting a result against a specification, on investigating a positive, and on laboratory biosafety.

What you will learn

- Apply aseptic technique and prevent cross contamination
- Prepare and quality control media
- Handle and homogenise samples correctly
- Select enumeration methods appropriate to the sample
- Detect and confirm specific pathogens
- Apply rapid and molecular methods within their validation
- Interpret results, investigate a positive and maintain biosafety

Who should attend

- Food and water microbiology analysts
- Quality control staff in food and beverage production
- Municipal and utility laboratory personnel
- Public health laboratory staff
- Laboratory supervisors and quality managers

Course outline

- 01 Results that arrive after the product has shipped
- 02 Aseptic technique and laboratory layout
- 03 Media preparation and quality control
- 04 Sample handling and homogenisation
- 05 Plate count and most probable number
- 06 Membrane filtration
- 07 Pathogen detection and confirmation
- 08 Rapid methods, interpretation and biosafety

Upcoming dates

Dates	Venue	Format	Fee per delegate
5 to 9 October 2026	Durban, South Africa	Classroom	R19,950
19 to 23 October 2026	Maseru, Lesotho	Classroom	R19,950
2 to 6 November 2026	Kampala, Uganda	Classroom	USD 1,325
1 to 5 February 2027	Online	Online	R8,500



Fees and how to register

This 5 day course is **R8,500** per delegate online, **R19,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 1,325** in the classroom elsewhere in Africa. In-house training is quotation on request. Book 2 or more delegates on this course and save 10%.

To register or request an in-house proposal, visit www.afrisciencegroup.com, email info@afiscience.co.za, or WhatsApp us on **+27 63 479 1136**.

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